TABLE H-19—SAFE WORKING LOADS FOR SHACKLES

[In tons of 2,000 pounds]

Material size (inches	Pin diame- ter (inches)	Safe work- ing load
1/2	5/8	1.4
5/8	3/4	2.2
3/4	7/8	3.2
7/8	1	4.3
1	11/8	5.6
11/8	11/4	6.7
11/4	13/8	8.2
1%	11/2	10.0
1½	15/8	11.9
1¾	2	16.2
2	21/4	21.2

TABLE H-20—NUMBER AND SPACING OF U-BOLT WIRE ROPE CLIPS

Improved plow steel, rope diameter (inches)	Number	Minimum	
	Drop forged	Other material	spacing (inches)
1/2	3	4	3
5/8	3	4	3 ³ / ₄
3/4	4	5	4 ¹ / ₂
⁷ / ₈	4	5	5½
1	5	6	6
1½	6	6 7	6 ³ / ₄
1¼	6		7 ¹ / ₂
1 ¹ / ₂	7	7	8 ¹ / ₄
	7	8	9

[44 FR 8577, Feb. 9, 1979; 44 FR 20940, Apr. 6, 1979, as amended at 58 FR 35173, June 30, 1993]

EFFECTIVE DATE NOTE: At 76 FR 33611, June 8, 2011, §1926.251 was amended by revising paragraphs (a)(2), (b)(4), (c)(1), (d)(1) and (f)(1); adding new paragraphs (c)(16) and (d)(7), effective July 8, 2011. For the convenience of the user, the added and revised text is set forth as follows:

\$ 1926.251 Rigging equipment for material handling.

- (a) * * *
- (2) Employers must ensure that rigging equipment:
- (i) Has permanently affixed and legible identification markings as prescribed by the manufacturer that indicate the recommended safe working load;
- (ii) Not be loaded in excess of its recommended safe working load as prescribed on the identification markings by the manufacturer; and
- (iii) Not be used without affixed, legible identification markings, required by paragraph (a)(2)(i) of this section.

* * * * *

(b) * * *

(4) Employers must not use alloy steelchain slings with loads in excess of the rated capacities (i.e., working load limits) indicated on the sling by permanently affixed and legible identification markings prescribed by the manufacturer.

* * * * *

(c) * * *

(1) Employers must not use improved plowsteel wire rope and wire-rope slings with loads in excess of the rated capacities (i.e., working load limits) indicated on the sling by permanently affixed and legible identification markings prescribed by the manufacturer.

* * * * *

(16) Wire rope slings shall have permanently affixed, legible identification markings stating size, rated capacity for the type(s) of hitch(es) used and the angle upon which it is based, and the number of legs if more than one.

* * * * *

(d) * * *

(1) Employers must not use natural- and synthetic-fiber rope slings with loads in excess of the rated capacities (i.e., working load limits) indicated on the sling by permanently affixed and legible identification markings prescribed by the manufacturer.

* * * * *

(7) Employers must use natural- and synthetic-fiber rope slings that have permanently affixed and legible identification markings that state the rated capacity for the type(s) of hitch(es) used and the angle upon which it is based, type of fiber material, and the number of legs if more than one.

* * * * *

(f) * * *

(1) Employers must not use shackles with loads in excess of the rated capacities (i.e., working load limits) indicated on the shackle by permanently affixed and legible identification markings prescribed by the manufacturer.

* * * * *

§ 1926.252 Disposal of waste materials.

(a) Whenever materials are dropped more than 20 feet to any point lying outside the exterior walls of the building, an enclosed chute of wood, or equivalent material, shall be used. For

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the purpose of this paragraph, an enclosed chute is a slide, closed in on all sides, through which material is moved from a high place to a lower one.

- (b) When debris is dropped through holes in the floor without the use of chutes, the area onto which the material is dropped shall be completely enclosed with barricades not less than 42 inches high and not less than 6 feet back from the projected edge of the opening above. Signs warning of the hazard of falling materials shall be posted at each level. Removal shall not be permitted in this lower area until debris handling ceases above.
- (c) All scrap lumber, waste material, and rubbish shall be removed from the immediate work area as the work progresses
- (d) Disposal of waste material or debris by burning shall comply with local fire regulations.
- (e) All solvent waste, oily rags, and flammable liquids shall be kept in fire resistant covered containers until removed from worksite.

Subpart I—Tools—Hand and Power

AUTHORITY: Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12–71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), 1–90 (55 FR 9033), or 5–2002 (67 FR 65008), as applicable; and 29 CFR part 1911. Section 1926.307 also issued under 5 U.S.C. 553.

§ 1926.300 General requirements.

- (a) Condition of tools. All hand and power tools and similar equipment, whether furnished by the employer or the employee, shall be maintained in a safe condition.
- (b) Guarding. (1) When power operated tools are designed to accommodate guards, they shall be equipped with such guards when in use.
- (2) Belts, gears, shafts, pulleys, sprockets, spindles, drums, fly wheels, chains, or other reciprocating, rotating or moving parts of equipment shall be guarded if such parts are exposed to contact by employees or otherwise create a hazard. Guarding shall meet the requirements as set forth in American National Standards Institute, B15.1—

1953 (R1958), Safety Code for Mechanical Power-Transmission Apparatus.

- (3) Types of guarding. One or more methods of machine guarding shall be provided to protect the operator and other employees in the machine area from hazards such as those created by point of operation, ingoing nip points, rotating parts, flying chips and sparks. Examples of guarding methods are—barrier guards, two-hand tripping devices, electronic safety devices, etc.
- (4) Point of operation guarding. (i) Point of operation is the area on a machine where work is actually performed upon the material being processed.
- (ii) The point of operation of machines whose operation exposes an employee to injury, shall be guarded. The guarding device shall be in conformity with any appropriate standards therefor, or, in the absence of applicable specific standards, shall be so designed and constructed as to prevent the operator from having any part of his body in the danger zone during the operating cycle.
- (iii) Special handtools for placing and removing material shall be such as to permit easy handling of material without the operator placing a hand in the danger zone. Such tools shall not be in lieu of other guarding required by this section, but can only be used to supplement protection provided.
- (iv) The following are some of the machines which usually require point of operation guarding:
 - (a) Guillotine cutters.
- (b) Shears.
- (c) Alligator shears.
- (d) Power presses.
- (e) Milling machines.
- (f) Power saws.
- (g) Jointers.
- (h) Portable power tools.
- (i) Forming rolls and calenders.
- (5) Exposure of blades. When the periphery of the blades of a fan is less than 7 feet (2.128 m) above the floor or working level, the blades shall be guarded. The guard shall have openings no larger than 1/2 inch (1.27 cm).
- (6) Anchoring fixed machinery. Machines designed for a fixed location shall be securely anchored to prevent walking or moving.
- (7) Guarding of abrasive wheel machinery—exposure adjustment. Safety guards